<u>.</u>	Application No.	Applicant(s)
Notice of Allowability	10/051,280	SHIMBO, ATSUSHI
	Examiner	Art Unit
	Chat C. Do	2193
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to 04/18/2005.		
2. 🔀 The allowed claim(s) is/are <u>9 and 20</u> .		•
3. The drawings filed on 22 January 2002 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have all the priori	re been received. re been received in Application ocuments have been receive " of this communication to file	on No ed in this national stage application from the
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview : Paper No /08), 7. ☐ Examiner'	nformal Patent Application (PTO-152) Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for Allowance

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Application/Control Number: 10/051,280 Page 2

Art Unit: 2193

REASONS FOR ALLOWANCE

1. Claims 9 and 20 are allowed.

2. Claims 1-8 and 10-19 are cancelled.

3. The following is an examiner's statement of reasons for allowance:

The prior art of records fails to disclose or render an obviousness of a method and an apparatus for performing an arithmetic operation of an integer on a basis of a residue number system comprising an input/output unit for configuring to input data included in modulus p; a storage unit for storing at least a portion of a plurality of base parameter sets; a base selection unit for selecting base parameter; and a plurality of arithmetic units for performing operations in parallel wherein the numbers of the base parameters of each base parameter set in storage unit are multiples of {u-t, u-t+1, ---, u} respectively; u is a number of arithmetic units and t is a maximum integer of a number of unused ones of the arithmetic units as cited in the independent claims 9 and 20.

The closest found prior art is Kenneth et al. ("The use of residue number systems in the design of finite impulse response digital filters"). Kenneth et al. disclose a method for performing an arithmetic operation of an integer on a basis of a residue number system comprising an input/output unit for configuring to input data included in modulus p; a storage unit for storing at least a portion of a plurality of base parameter sets; a base selection unit for selecting base parameter; and a plurality of arithmetic units for

performing operations in parallel. However, Kenneth et al. fail to disclose the numbers of the base parameters of each base parameter set in storage unit are multiples of {u-t, ut+1, ---, u} respectively; u is a number of arithmetic units and t is a maximum integer of a number of unused ones of the arithmetic units as cited in the present claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chat C. Do whose telephone number is (571) 272-3721. The examiner can normally be reached on 7:00AM to 5:00PM M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chaki Kakali can be reached on (571) 272-3719. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 10/051,280

Art Unit: 2193

Page 4

Chat C Do Examiner Art Unit 2193

June 8, 2005

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KAKALI CHAKI SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100